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JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **06268553 A**

(43) Date of publication of application: **22.09.94**

(51) Int. Cl. **H04B 1/54**
H04B 1/18
H04L 27/22

(21) Application number: **05052702**

(22) Date of filing: **12.03.93**

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**(54) COMMUNICATIONS TERMINAL EQUIPMENT AND
AUTOMATIC ADJUSTMENT CIRCUIT**

(57) Abstract:

PURPOSE: To unnecessitate the adjustment of an analog signal processing system especially in the communications terminal equipment of the time division multiple access time division communications system.

CONSTITUTION: The terminal equipment is provided with a transmission reception antenna 16, a transmission amplifier 14 amplifying a transmission signal of a concerned station subject to orthogonal transformation, a reception amplifier 17 amplifying a reception signal from another station received by the antenna 16, a switch circuit 15 receiving a transmission signal from the transmission amplifier 14 to apply it to the antenna 16, applying a reception signal received by the antenna 16 to the reception amplifier 17 and applying part of the transmission signal to the reception amplifier 17 via a fixed attenuator 15a as a loopback signal, an orthogonal detection circuit 18 applying orthogonal detection to the reception signal amplified by the reception amplifier 17 or a loopback signal at the concerned station, and an error detection circuit 21 detecting a DC offset error and a gain error of the two amplifiers 14, 17 by the detection output of the

orthogonal detection circuit 18 and feeding back the detected error signal to the amplifiers 14, 17.

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